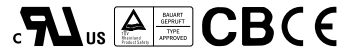


### ■ Features :

- Universal AC input/Full range
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- Isolation class II
- LED indicator for power on
- 100% full load burn-in test



### SPECIFICATION

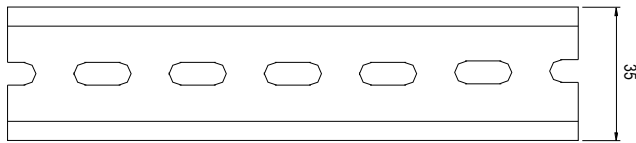
| MODEL                 | DR-60-5   | DR-60-12  | DR-60-15     | DR-60-24       |              |
|-----------------------|---|---|--------------|----------------|--------------|
| OUTPUT                | DC VOLTAGE  | 5V  | 12V          | 15V            | 24V          |
|                       | RATED CURRENT   | 6.5A  | 4.5A         | 4A             | 2.5A         |
|                       | CURRENT RANGE   | 0 ~ 6.5A  | 0 ~ 4.5A     | 0 ~ 4A         | 0 ~ 2.5A     |
|                       | RATED POWER   | 32.5W   | 54W          | 60W            | 60W          |
|                       | RIPPLE & NOISE (max.) Note.2  | 80mVp-p   | 120mVp-p     | 120mVp-p       | 150mVp-p     |
|                       | VOLTAGE ADJ. RANGE  | 4.75 ~ 5.5V   | 11.1 ~ 13.2V | 13.5 ~ 16.5V   | 21.6 ~ 26.4V |
|                       | VOLTAGE TOLERANCE Note.3  | ±2.0%   | ±1.0%        | ±1.0%          | ±1.0%        |
|                       | LINE REGULATION   | ±1.0%   | ±1.0%        | ±1.0%          | ±1.0%        |
|                       | LOAD REGULATION   | ±1.0%   | ±1.0%        | ±1.0%          | ±1.0%        |
|                       | SETUP, RISE TIME  | 100ms, 30ms/230VAC    200ms, 30ms/115VAC at full load   |              |                |              |
| HOLD TIME (Typ.)      | 100ms/230VAC    23ms/115VAC at full load  |   |              |                |              |
| INPUT                 | VOLTAGE RANGE   | 88 ~ 264VAC    124 ~ 370VDC   |              |                |              |
|                       | FREQUENCY RANGE   | 47 ~ 63Hz   |              |                |              |
|                       | EFFICIENCY (Typ.)   | 76%   | 82%          | 83%            | 84%          |
|                       | AC CURRENT (Typ.)   | 1.2A/115VAC    0.8A/230VAC  |              |                |              |
|                       | INRUSH CURRENT (Typ.)   | COLD START 18A/115VAC    36A/230VAC   |              |                |              |
| PROTECTION            | OVER LOAD   | 105 ~ 160% rated output power<br>Protection type : Constant current limiting, recovers automatically after fault condition is removed |              |                |              |
|                       | OVER VOLTAGE  | 5.75 ~ 6.75V  | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V |
| ENVIRONMENT           | WORKING TEMP.   | -20 ~ +60°C (Refer to output load derating curve)   |              |                |              |
|                       | WORKING HUMIDITY  | 20 ~ 90% RH non-condensing  |              |                |              |
|                       | STORAGE TEMP., HUMIDITY   | -40 ~ +85°C, 10 ~ 95% RH  |              |                |              |
|                       | TEMP. COEFFICIENT   | ±0.03%/°C (0 ~ 50°C)  |              |                |              |
|                       | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes   |              |                |              |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS  | UL60950-1, TUV EN60950-1 Approved, Design refer to EN50178  |              |                |              |
|                       | WITHSTAND VOLTAGE   | I/P-O/P:3KVAC   |              |                |              |
|                       | ISOLATION RESISTANCE  | I/P-O/P:100M Ohms/500VDC  |              |                |              |
|                       | EMI CONDUCTION & RADIATION  | Compliance to EN55011,EN55022 (CISPR22) Class B   |              |                |              |
|                       | HARMONIC CURRENT  | Compliance to EN61000-3-2,-3  |              |                |              |
| OTHERS                | MTBF  | 216.2K hrs min.    MIL-HDBK-217F (25°C)   |              |                |              |
|                       | DIMENSION   | 78*93*56mm (W*H*D)  |              |                |              |
|                       | PACKING   | 0.3Kg; 48pcs/15.4Kg/1.02CUFT  |              |                |              |
| NOTE                  | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> </ol> |   |              |                |              |

**Mechanical Specification**

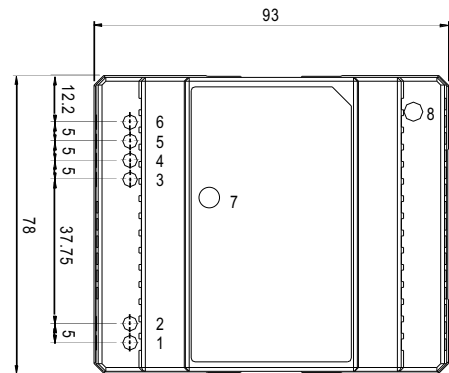
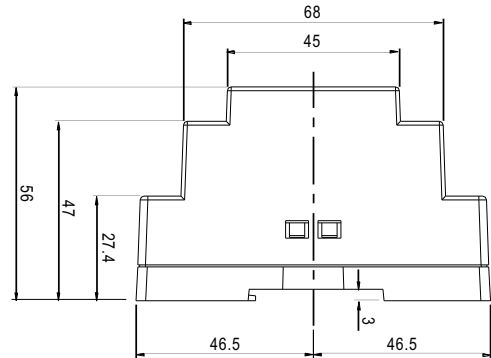
Case No.918B Unit:mm

Terminal Pin. No Assignment

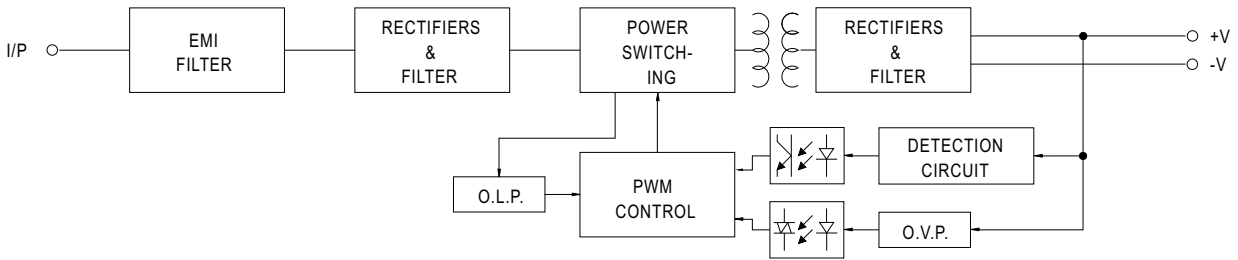
| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|------------|
| 1       | AC/N       | 5,6     | -V         |
| 2       | AC/L       | 7       | LED        |
| 3,4     | +V         | 8       | +V ADJ.    |



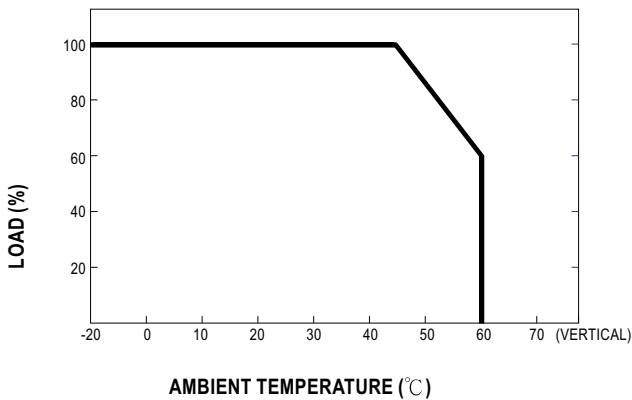
ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15



**Block Diagram**



**Output Derating**





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LA GARANTÍA SE ENTIENDE EN NUESTROS TALLERES, SIENDO POR CUENTA DEL USUARIO LOS COSTES DEL TRANSPORTE.

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